

SUMMARY

Self-motivated civil engineering professional with a background in innovative planning and management of public construction projects. Expertise in a fast-paced environment with problem-solving, oral, and written communication skills.

EDUCATION

Master of Science in Construction Engineering & Management Jan 2020 - Dec 2021
California State University Fullerton, California

Master of Technology in Structural Engineering Nov 2015 - Nov 2017
MVGR College of Engineering (A), INDIA.

Bachelor of Technology in Civil Engineering Sep 2011 - Jun 2015
VIGNAN'S Institute of Information Technology, INDIA.

PROFESSIONAL EXPERIENCE

Construction Site Engineer, Venkata Sai Constructions, Visakhapatnam, India Jan 2018 – May 2019

- Assisted in managing the scope, preparing quantity take-offs, solving complex issues, and delivering strategic solutions.
- Validate project plans, specifications, shop drawings, marketing material, RFI logs, daily status reports, and punch list data.
- Led cross-functional teams and increased the growth by 2.7% in 2018 with 100% client satisfaction.
- Coordinated with the managing director and provided support to project management staff in preparing bid documentation and execution of technical tasks with the application of best practices and seamless conflict resolution.
- Generated design reports using software like AutoCAD, STAAD.Pro, ETABS, and MS Project and solved technical issues and boosted the performance problems by monitoring and making suitable recommendations.

Structural Engineering Intern, Indiabulls, Visakhapatnam, India May 2016

- Provided structural analysis, design, and detailing for retaining walls.
- Coordinated with architecture and structural engineers in designing two-way slabs, foundations, and selection of tower cranes.
- Collaborated with the staff in surveying using Total Station, testing concrete samples, construction of batching plant, and calculations for the delivery time of Ready Mix Concrete trucks.
- Assisted the research team in the development of training courses helpful in the fast-paced construction markets.

THESIS

- **Study on Effect of Seismic Isolation and Lateral Load Resisting System on Irregular Reinforced Concrete Frames:** Used ETABS and SAP2000 software to model and perform non-linear time history analysis on earthquake-induced vertical and horizontal irregular residential structures with and without different base isolators. This includes a study on average base shear, roof displacements, inter-story drift ratios, and roof accelerations after decoupling the structure from potentially damaging earthquake-induced ground motions.
- **Study on Effect of Mineral and Chemical Admixtures and their combinations in different grades of Concrete having Portland Pozzolana Cement:** Compressive strength of M20, M30, and M40 grade cube and cylindrical specimens were compared at different curing periods. The mixture includes different percentages of GGBS and Admixtures, accelerating the rate of hydration. Strengths were tested using Compression Testing Machine and Ultrasonic Pulse Velocity test.

COURSE PROJECTS

- Creating and submitting a bid package to Fullerton Arboretum for a new parking lot. It includes project plans, work schedules, estimations, resource procurement, bid documents, purchasing accounting, post-bid buyouts, and contract administration.
- Conceptualizing construction of the ancient Colosseum of Rome in the twentieth century using modern construction equipment, methods, and techniques. Results include transportation of materials, pricing and time comparisons, selection suitable of earthwork equipment, and engineering economics.
- Optimal solution through fast convergence for transportation of shipping wood through road and rail in LOS ANGELES. Simplex methods such as the Russell method, Northwest Corner method, Transportation Simplex method, and Putha-Bhuiyan method were used.
- Implementation of Lean and Artificial Intelligence tools in Construction. Used Statistical Control charts, MATLAB Fuzzy logic toolbox and Netica to estimate the probability of winning the Fullerton greenhouse bid and the probability of completing the project within the scheduled time.

SKILLS

AutoCAD, STAAD.Pro, ETABS, SAP2000, SeismoSignal, Bluebeam, MATLAB Fuzzy Logic, Procore, MS Office Suite (Word, Excel, Outlook, PowerPoint), IBM SPSS, Netica, Google Suite.